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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

04/30/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER

KITOV, ZEEV

ART UNIT PAPER NUMBER

2836

DATE MAILED: 04/30/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,990	08/16/2001	Peter Hasse	205739US6PCT	7869

TITLE OF INVENTION: SPARK GAP ARRANGEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	07/30/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
  - Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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P.C. 1940 DUKE STREET		ART UNIT	PAPER NUMBER	
••••	ALEXANDRIA, VA 22314		2836	
		DATE MAIL FD: 04/30/2004		

# Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



	Application No.	Applicant(s)			
	09/806,990	HASSE ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Zeev Kitov	2836			
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI- of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the (OR REMAINS) CLOSED in this a or other appropriate communication is subject	pplication. If not included on will be mailed in due course. THIS			
1. This communication is responsive to <u>02/20/04</u> .					
2. ☑ The allowed claim(s) is/are <u>10 - 23</u> .					
3. X The drawings filed on 16 August 2001 are accepted by the	Examiner.	•			
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority un</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No.				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements			
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>					
6. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review ( PTC	)-948) attached			
1)  hereto or 2)  to Paper No./Mail Date					
(b) including changes required by the attached Examiner's Paper No./Mail Date	3 Amendment / Comment or in the	Office action of			
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the					
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT INFORMATION.</li> </ol>					
Attachment(s)	5 D Notice of Informal	Data de Angliantina (DTO 452)			
1. Notice of References Cited (PTO-892)		Patent Application (PTO-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		<ol> <li>Interview Summary (PTO-413),         Paper No./Mail Date     </li> <li>Examiner's Amendment/Comment</li> </ol>			
Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date					
4.   Examiner's Comment Regarding Requirement for Deposit		nent of Reasons for Allowance			
of Biological Material	9.				
•					

## **REASONS FOR ALLOWANCE**

Examiner acknowledges a submission of the amendment and arguments filed on February 20, 2004. Claims E1 – 18 are amended. New claims 19 – 23 are added.

Amendment and arguments have overcome rejections under 102 (b) and 103(a).

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Attorney, Mr. McQuay on April 19, 2004.

Please amend Claim13, line 7, as follows:

"wherein there is further provided a pressure-resistant [, preferably] metallic flow channel".

Please amend Claim 18, line 7, as follows:

"wherein there is further provided a pressure-resistant [, preferably] metallic flow channel".

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The following is an examiner's statement of reasons for allowance:

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An amended independent Claim 10 discloses a spark gap device, which inter alia, includes following limitation: "an intermediate constant-volume chamber disposed downstream of the arcing chamber and connected thereto by a metallic flow channel, wherein a volume of said intermediate chamber is substantially larger than a volume of the arcing chamber". The closest reference for the claim is Abe et al. disclosing an ignition system for an internal combustion engine having a structure similar to the invented spark gap device. It has electrode, a metallic flow channel and enlarged space downstream of the flow channel, similar to the intermediate chamber of the invention. However, unlike the intermediate chamber of the invention, the enlarged space functions as a combustion chamber, thus making it quite different from the invented structure.

The same limitation in rephrased form is recited again in the independent Claims 18 and 19, thus making them allowable. Additionally, Claim 19 discloses a continuously opened outlet opening, which distinguishes the Claim from Abe et al. reference.

An amended independent claim 13, discloses, inter alia, the walls of the intermediate chamber being covered with a plastic for quenching gas when heated.

Such limitation was not found in the collected prior art of the record.

Allowability resides, at least in part, in the above-described limitations, which has not been disclosed in the Prior Art in a search.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zeev Kitov whose telephone number is (571) 272-2052. The examiner can normally be reached on 8:00 – 4:30. If attempts to reach examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571) 272 – 2800, Ext. 36. The fax phone number for organization where this application or proceedings is assigned is (703) 872-9306 for all communications.

Z.K. 04/18/2004

> BRIAN SIRCUS SUPERVISORY PATENT EXAMINER

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